

Delta Obesity Prevention Research Unit— Mission Statement

The Delta Obesity Prevention Research Unit is coordinating a major research program that brings together the expertise of seven institutions in the three state region. These institutions and their research scientists provide unique skills and resources to the Delta. Their research will result in Lower Mississippi Delta specific recommendations

for input into the 2015 Dietary
Guidelines that will enable rural Lower
Mississippi Delta individuals and families to adopt food and physical activity guidelines for



sustaining healthy weights, preventing obesity, and reducing the risk factors for obesity related chronic diseases.

Current Mississippi Personnel Supported by Delta OPRU

<u>The University of Southern</u> <u>Mississippi</u>

Carol Connell
Kathy Yadrick
Holly Federico Huye
Jamie Zoellner
LaShaundrea Crook
Martha Resavy
Belynda Brock
Briuana Perryman
Alicia Landry
13 Part-Time Employees

Alcorn State University

Cinda Catchings Edith Ezekwe Gwendolyn Lucas Mattie Rasco 8 Part Time Employees

2012 Personnel Levels Supported by Delta Obesity Prevention Research Unit

The University of Southern Mississippi - 21 Employees Alcorn State University - 12 Employees

USDA, ARS, Delta OPRU www.ars.usda.gov/spa/dopru

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USDA, ARS, Delta Obesity Prevention Research Unit



Mississippi Research Cooperators



The University of Southern Mississippi Hattiesburg, MS



Alcorn State University Alcorn State, MS

The University of Southern Mississippi 2010-2014 Project Summary



Effectiveness of Women's Social Club Members Adopting Modified Dietary Guidelines

Obesity rates in the Lower Mississippi Delta region are among the highest in the U.S., with less than 7% of Delta adults consuming a healthy diet that can reduce the risk of obesity. Evaluating the existing food patterns of Delta adults is needed. Adapting these existing patterns to meet the Dietary Guidelines for Americans will be achieved through the research conducted by the University of Southern Mississippi cooperating scientists. Minor,

however effective, modifications will be made to existing dietary patterns and evaluated for successful implementation in Mississippi social women's organizations over a 12 month period. Suc-



cessful results will improve the diets of dietary residents, specifically weight status and healthy blood pressure. For additional information, contact Dr. Carol Connell (carol.connell@usm.edu).

The University of Southern Mississippi Significant Publications:

- Connell, C.L., Zoellner, J.M., Yadrick, M., Chekuri,
 S.C., Crook, L.B., Bogle, M.L. 2012. Energy density,
 nutrient adequacy, and cost per serving can provide insight into food choices in the lower Mississippi Delta.
 Journal of Nutrition Education and Behavior. 44(2):148-153.
- Zoellner, J., You, W., <u>Connell, C.</u>, Smith-Ray, R.L., Allen, K., Tucker, K.L., Davy, B.M., Estabrooks, P. 2011. Health literacy is associated with healthy eating index scores and sugar-sweetened beverage intake: Findings from the rural lower Mississippi delta. Journal Of The American Dietetic Association. 111(7):1012-1020.
- Thomson, J.L., Tussing Humphreys, L.M., Onufrak, S.,
 Connell, C., Zoellner, J., Bogle, M.L., Yadrick, K.
 2011. A simulation study of the potential effects of healthy food and beverage substitutions on diet quality and total energy intake in lower Mississippi Delta adults. Journal of Nutrition 2011. 141:2191-2197.
- Thomson, J.L., Tussing Humphreys, L.M., Onufrak, S.J.,
 Connell, C.L., Zoellner, J.M., Bogle, M.L., Yadrick, K.
 2011. Simulated reductions in consumption of sugar-sweetened beverages improves diet quality in Lower Mississippi Delta adults. Food and Nutrition Research.
 55(7304):7.
- Downey, L., Cuy, Castellanos, D., Yadrick, K.,
 Avis-Williams, A., Graham-Kresge, S., Bogle, M.L.
 2010. Perceptions of Community-Based Participatory
 Research in the Delta Nutrition Intervention Research
 Initiative: An Academic Perspective. Health Promotion
 Practice. doi:10.1177/1524839909353743.
 http://hpp.sagepub.com/pap.dtl
- Downey, L.H., Cuy Castellanos, D., Yadrick, K.,
 Threadgill, P., Kennedy, B., Strickland, E., Prewitt, T.E.,
 Bogle, M.L. 2010. Capacity building for health through
 community based participatory nutrition intervention
 research in rural communities. Family & Community
 Health. 33 (3): 175-185.
- Zoellner, J., Bounds, W., Connell, C., Yadrick, K.,
 Crook, L. 2010. Meaningful messages: Adults in the Lower Mississippi Delta provide cultural insight into strategies for promoting the My Pyramid. Journal of Nutrition Education & Behavior. 42:41-50.

Alcorn State University 2010-2014 Project Summary



Adaptation and Adoption of the Dietary Guidelines by Caregivers of Head Start Children in Southwest Mississippi

The prevalence of childhood obesity is of great proportions amongst rural, limited resource populations in the Lower Mississippi Delta region and particularly in Mississippi. Cooperating researchers at Alcorn State University are conducting research to reduce the current levels of obesity in these populations. Researchers will utilize a pre-/post-test design to determine the effectiveness of combining nutrition education with social support to help mothers make dietary changes. These changes will be monitored by looking for an increased consumption level of fruits and vegetables in caregivers of children attending Head Start Centers in Southwest Mississippi. Contact Dr. Mattie Rasco (mrasco@alcorn.edu) for additional information.